

WHAT IS CLAIMED IS:

1. A method for handling, by a multiple interface naming proxy operating upon a machine connected to multiple subnet links via distinct network interfaces, a network resource name service request received on a first one of the network interfaces to  
5 facilitate rendering a corresponding network address of a resource residing on a subnet coupled to the machine via a second one of the distinct network interfaces, the method comprising the steps of:

first receiving, by the multiple interface naming proxy via the first network interface, the network resource name service request;

10 first transmitting, via at least the second network interface, a name query request corresponding to the network resource name service request; and

second receiving in response to the first transmitting step, by the machine via the second network interface, a name query response including a network address for the resource residing on the subnet coupled to the machine via the second network interface.

15 2. The method of claim 1 wherein the multiple interface naming proxy maintains a cache of name-to-address entries, and further comprising the step of:

determining, by the multiple interface naming proxy in response to the first receiving step, that the cache does not contain an entry corresponding to a name identified  
20 in the name service request.

3. The method of claim 1 wherein the machine executes a remote access server (RAS) server.

25 4. The method of claim 3 wherein the first network interface is a RAS interface.

5. The method of claim 4 wherein the second network interface is linked to a local area network (LAN).

6. The method of claim 3 further comprising the steps of:  
accessing, by the RAS server, the network address received by the machine during  
the second receiving step; and

establishing, by the RAS server on behalf of the RAS client, a connection between  
the RAS server and the resource residing on the subnet coupled to the machine via the  
second network interface.

7. The method of claim 3 further comprising the step of:  
transmitting the network address via the first network interface to a RAS client.

8. The method of claim 1 wherein the network address is an internet protocol  
(IP) address.

9. The method of claim 1 wherein the first network interface and second  
network interface are linked to distinct local area networks (LANs).

10. A computer-readable medium having computer-executable instructions for  
facilitating handling, by a multiple interface naming proxy operating upon a machine  
connected to multiple subnet links via distinct network interfaces, a network resource  
name service request received on a first one of the network interfaces to facilitate  
rendering a corresponding network address of a resource residing on a subnet coupled to  
the machine via a second one of the distinct network interfaces, the computer-readable  
medium having computer-executable instructions facilitating performing the steps of:

first receiving, by the multiple interface naming proxy via the first network  
interface, the network resource name service request;

first transmitting, via at least the second network interface, a name query request  
corresponding to the network resource name service request; and

second receiving in response to the first transmitting step, by the machine via the  
second network interface, a name query response including a network address for the  
resource residing on the subnet coupled to the machine via the second network interface.

11. The computer-readable medium of claim 10 wherein the multiple interface naming proxy maintains a cache of name-to-address entries, and further comprising computer-readable instructions facilitating performing the step of:

determining, by the multiple interface naming proxy in response to the first receiving step, that the cache does not contain an entry corresponding to a name identified in the name service request.

12. The computer-readable medium of claim 10 wherein the first network interface is a RAS interface.

13. The computer-readable medium of claim 12 wherein the second network interface is linked to a local area network (LAN).

14. The computer-readable medium of claim 12 further comprising computer-executable instructions for performing the step of:

accessing, by a RAS server, the network address received by the machine during the second receiving step; and

establishing, by the RAS server on behalf of a RAS client, a connection between the RAS server and the resource residing on the subnet coupled to the machine via the second network interface.

15. The computer-readable medium of claim 12 further comprising computer-executable instructions for facilitating performing the step of:

transmitting the network address via the first network interface to a RAS client.

16. The computer-readable medium of claim 10 wherein the network address is an internet protocol (IP) address.

17. The computer-readable medium of claim 10 wherein the computer-executable instructions facilitate performing the first receiving, first transmitting, second

receiving steps on the machine having a first network interface and second network interface linking the machine to distinct local area networks (LANs).

18. A network server machine providing name services for responding to network resource name service requests from connected clients residing upon multiple distinct sub-nets, the network server machine comprising:

a first network adaptor coupled to a first sub-net including a naming service client;

a second network adaptor coupled to a second sub-net including a resource having a resource name and an associated network address;

a set of stored computer-executable instructions for executing a multiple interface naming proxy service facilitating performing, by the network server machine, the steps of:

first receiving, by the multiple interface naming proxy via the first network adaptor, the network resource name service request;

first transmitting, via at least the second network adaptor, a name query request corresponding to the network resource name service request; and

listening for, in response to the first transmitting step, by the machine via the second network interface, a name query response including a network address for the resource residing on the subnet coupled to the machine via the second network interface.

19. The network server machine of claim 18 wherein the multiple interface naming proxy maintains a cache of name-to-address entries, and further comprises computer-executable instructions for facilitating performing the step of:

determining, by the multiple interface naming proxy in response to the first receiving step, that the cache does not contain an entry corresponding to a name identified in the name service request.

20. The network server machine of claim 18 further comprising computer executable instructions for executing a remote access server (RAS) server.

21. The network server machine of claim 20 wherein the first network adaptor is associated with a RAS interface.

22. The network server machine of claim 21 wherein the second network adaptor is linked to a local area network (LAN).

23. The network server machine of claim 20 further comprising computer-executable instructions facilitating performing the steps of:

accessing, by the RAS server, the network address received by the machine during the second receiving step; and

establishing, by the RAS server on behalf of the RAS client, a connection between the RAS server and the resource residing on the subnet coupled to the machine via the second network interface.

24. The network server machine of claim 20 further comprising computer-executable instructions facilitating performing the step of:

transmitting the network address via the first network interface to a RAS client.

25. The network server machine of claim 18 wherein the network address is an internet protocol (IP) address.

26. The network server machine of claim 18 wherein the first network adaptor and second network adaptor are linked to distinct local area networks (LANs).